

OPERATING INSTRUCTIONS

IPA™/300

HIGH PERFORMANCE

UTILITY AMPLIFIER



PEAVEY®

**ARCHITECTURAL
ACOUSTICS™**

FUSE (7)

The fuse is located within the cap of the fuseholder. If the fuse should fail, IT MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY. If the amp repeatedly blows fuses, it should be taken to a qualified service center for repair.

WARNING: THE FUSE SHOULD ONLY BE REPLACED WHEN THE POWER CORD HAS BEEN DISCONNECTED FROM ITS POWER SOURCE.

OUTPUT (8)

A direct output, as well as several Autoformer outputs, are provided to allow the proper interface between the amplifier and the speaker system. The direct output allows direct connection to a 4 ohm speaker system. To use this output, disconnect the jumper between the OUT terminal and the XFMR terminal. Connect the speaker (or speakers) from the GND terminal to the OUT terminal. 8 ohm, 16 ohm, 25 volt and 70 volt outputs are also provided. To use these outputs, the jumper between OUT and XFMR must be installed. For 8 ohm speaker systems, connect between the GND terminal and the 8 ohm terminal on the IPA/300. For use with 16 ohm speaker systems, connect between the GND terminal and the 16 ohm/70V terminal. 25V and 70V outputs are also provided for "constant voltage" speaker distribution systems. The 25V output connection is between the GND terminal and the 25V terminal. The 70V output connection is between the GND terminal and the 16 ohm/70V terminal. One more output is provided on the IPA series amplifiers. This is a balanced, transformer isolated line level output, is provided for direct connection to "music on hold" systems, booster power amplifiers, etc. This output is designed to deliver 1V RMS into a 600 ohm load. See Fig. 5 through 9 for possible output connections.

RCA INPUT JACK (9)

The RCA line input is paralleled with other inputs. See figure 4 concerning use of this jack.

1/4" INPUT JACK (10)

The 1/4" phone input allows balanced operation (RTS). This jack serves as an unbalanced input when used with a "mono" (tip-sleeve) 1/4" plug.

BALANCED INPUT (XLR) (11)

The balanced input is in parallel with other inputs and allows balanced operation with XLR connection.

LINE INPUTS (12)

The input terminals are configured to allow balanced or unbalanced signals to be connected to the system. See figures 1 and 2.

EXTERNAL MASTER VOLUME (13)

These terminals allow connection of an external volume control. To gain complete control of volume from an external volume control, the front panel "level" control must be set to maximum. The external volume control should be connected as shown in figure 3.

INSTALLATION INFORMATION POWER AND GROUNDING:

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities suitable grounding adaptors should be used. Less noise and greatly reduced shock hazard exist when the unit is operated with the proper grounded receptacles.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The power amplifier shall have one input with provisions for balanced and unbalanced signals. Connections for the balanced input shall be provided via an RTS 1/4" jack, XLR "cannon" jack, and barrier strip connections. Connections for the unbalanced input shall be provided by the RTS 1/4" jack, barrier strip connections and an RCA phono jack. Provision for an external master volume control shall be made via barrier strip connections on the back panel. The unit shall be packaged in a rugged metal chassis 19" wide by 5 1/4" high by 13 1/2" deep (including external handles). The unit shall operate from standard 120 volts AC, 60 Hz power. The power amplifier shall be capable of delivering 300 watts into 4 ohms, 8 ohms, and 16 ohms, as well as providing 25 volt and 70 volt line outputs. The unit shall be capable of delivering rated power from 20 Hz to 20 kHz +1 / -2 dB into 4 ohms at its direct output at .1% or less distortion with system hum and noise at least 95 dB below rated output. The unit shall be called the Peavey Architectural Acoustics Division model IPA/300.

RATED POWER AND LOAD

DIRECT OUTPUT

300W RMS @ 4 ohms

TRANSFORMER OUTPUT

300W RMS @ 16 ohms (70V)/2 ohms (25V)

DISTORTION

.1% THD @ rated power

FREQUENCY RESPONSE

DIRECT OUTPUT

+1/-2 dB 20 Hz to 20 kHz

HUM AND NOISE

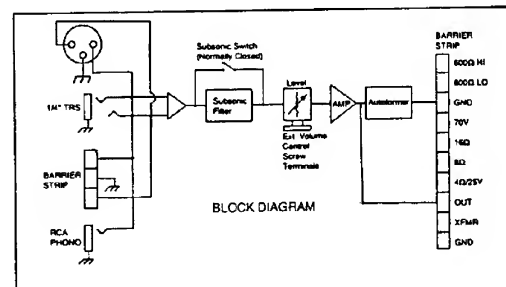
Greater than 95 dB below rated power

INPUT SENSITIVITY

1.0V RMS

SUBSONIC FILTER

Provides an 18 dB per octave rolloff of low frequencies with the 3 dB point @ 42 Hz



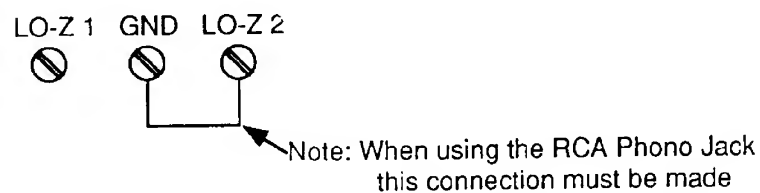
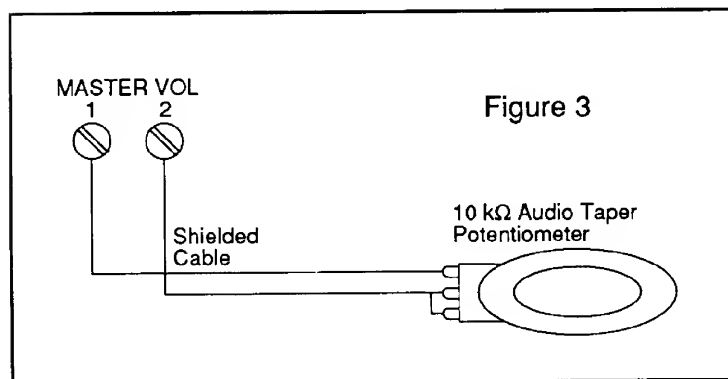
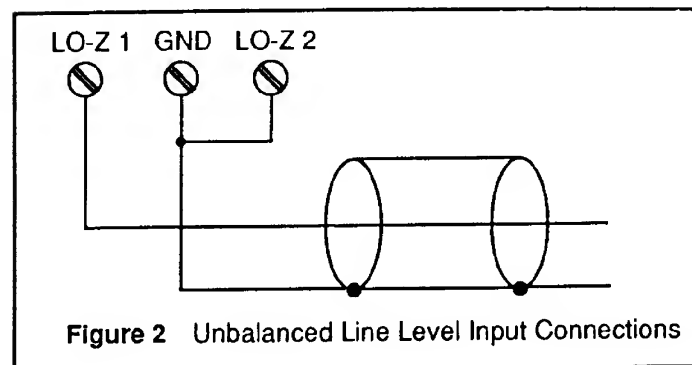
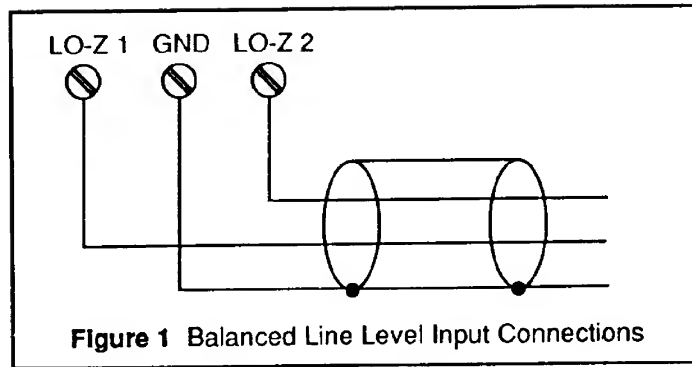


Figure 4 RCA Phono Jack Configuration of Barrier Strip

NOTE: ALL DIAGRAMS ARE OF IPA™ / 300 BACK PANEL

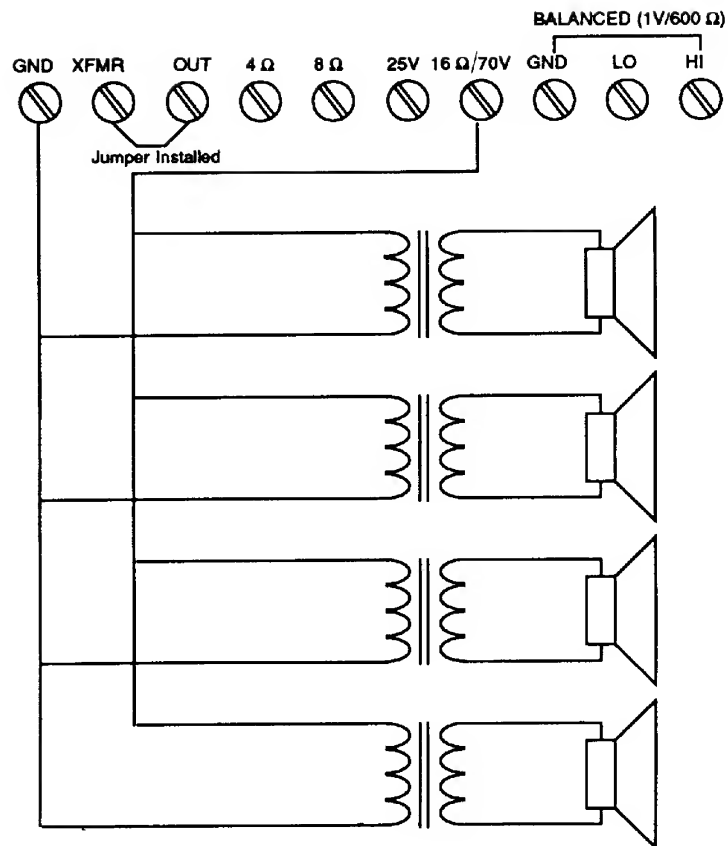


Figure 5. 70 V "Constant Voltage" Distribution System

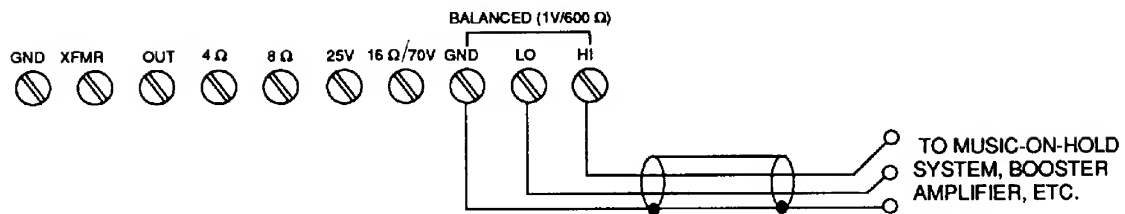
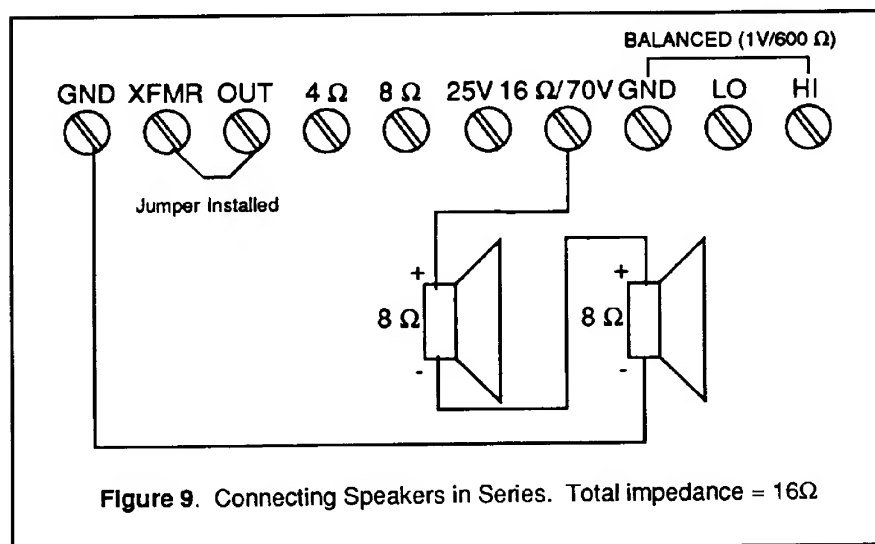
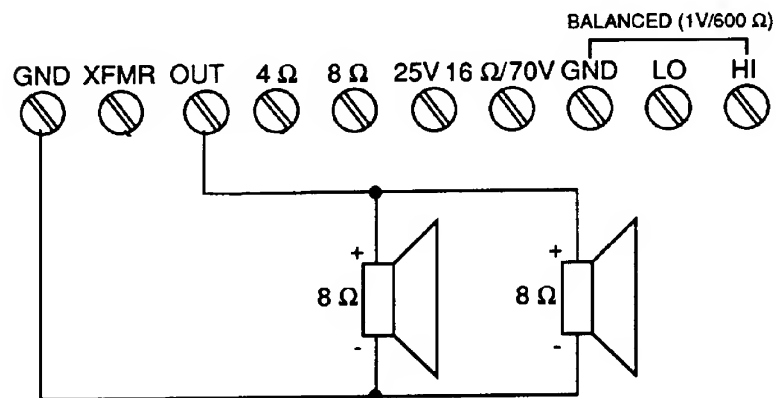
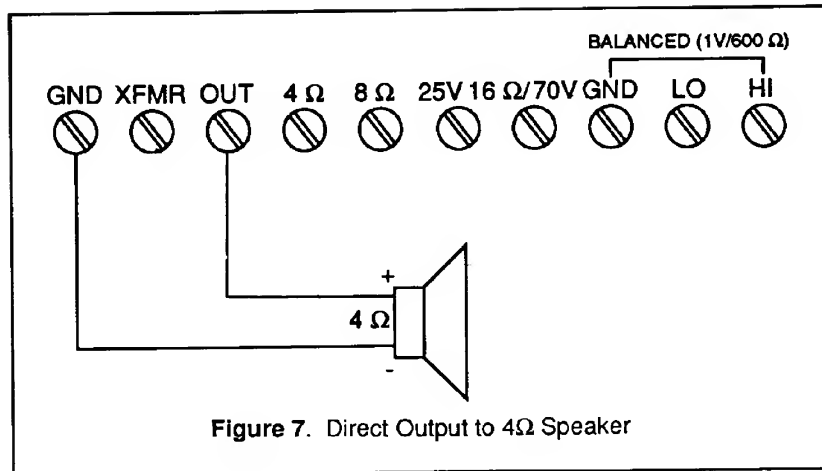


Figure 6. 600 ohm Balanced Output Connection



WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics™ product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed. Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action, is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5376.

⚠ DANGER ⚠

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.

THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

DURATION PER DAY IN HOURS	SOUND LEVEL DBA, SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.75	110
0.5	115

+ of 1983

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS. EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE. TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS, IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THE UNIT IS IN OPERATION.

⚠ CAUTION ⚠

THIS AMPLIFIER HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE POWER RESERVE FOR PLAYING MODERN MUSIC WHICH MAY REQUIRE OCCASIONAL PEAK POWER TO HANDLE OCCASIONAL PEAK POWER. ADEQUATE POWER HEADROOM HAS BEEN DESIGNED INTO THIS SYSTEM EXTENDED OPERATION AT ABSOLUTE MAXIMUM POWER LEVELS IS NOT RECOMMENDED SINCE THIS COULD DAMAGE THE ASSOCIATED LOUDSPEAKER SYSTEM. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE GAIN CONTROLS IF THE INPUT SIGNAL IS VERY STRONG.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, (e.g. a bathtub, sink, swimming pool, wet basement, etc.)
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator or another heat producing appliance.

8. Connect only to power supply of the type marked on the unit and to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in a equipment rack, rear support should be provided.

13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag. Do not ammonia based household cleaner if necessary.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
 - A. The power supply cord or plug has been damaged.
 - B. Anything has fallen or been spilled into the unit.
 - C. The unit does not operate correctly.
 - D. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.



PEAVEY®
A R C H I T E C T U R A L
A C O U S T I C S™

Features and specifications are subject to change

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